

**SEASONAL MONITORING PROGRAM  
DISMANTLE REPORT  
SITE 063042, LODI, CALIFORNIA.**

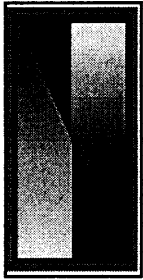
**January 1997**



**NICHOLS  
CONSULTING  
ENGINEERS, Chtd.**

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## MEMORANDUM

TO: Mr. Aramis Lopez, Jr.  
Long-Term Pavement Performance Division  
FROM: Srikanth S. Holikatti and Douglas J. Frith  
DATE: January 31, 1997  
SUBJECT: **Suspension of SMP Site Monitoring Activities, Site 063042.**

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This memo will serve as the SMP Site Monitoring Suspension Status Report for Site 063042 (06SA) near Lodi, California. This report narrates the activities associated with the suspension of SMP site monitoring.

The site was last monitored on August. 26, 1996 and de-installation occurred at this time. The following activities were performed before suspension of SMP monitoring activities and dismantling of SMP instrumentation:

- FWD testing of the section.
- Elevation measurements.
- Ground water table measurements.
- Joint opening and joint faulting measurements.
- Automated mobile data collection.
- Downloading of Onsite data before dismantling the CR10 datalogger.

Longitudinal profile measurements were performed on August 14, 1996 using a K J Law profilometer.

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Following pre-dismantle and dismantle activities were performed:

- The observation well and cap threads were thoroughly cleaned and lubricated (greased) before the well was sealed.
- The air temperature probe and rain gauge were disconnected from the steel pole and the pole was removed from the bottom joint. The pole stub, embedded in the ground, was cleaned and lubricated before capping.
- The instrumentation hole and access trench were both closely inspected and the joints were sealed with silicone sealant wherever necessary. No further patching was required.
- All TDR probes, thermistor temperature sensor unit cables and wiring were disconnected from the CR10 datalogger. These were carefully checked and labeled. The labels on each cable were scotch taped to ensure they would remain in place.
- A coat of electronics grade anti-corrosive compound was applied to the cables and wiring connections to protect against corrosion of contact points. The cables were then put in a heavy duty plastic bag and were taped to keep out the elements. They were then secured inside the equipment cabinet.
- The instrument panel board containing the CR10 datalogger, the relay and the terminal strip was removed.
- The equipment cabinet was checked and adequate drainage was ensured in case of heavy precipitation.
- The equipment cabinet lock was lubricated with graphite lubricant, the lock was taped to keep out the natural elements.
- The deflection and elevation measurement locations were marked with white paint for easy identification.
- A layout sketch of the section indicating the locations of the instrumentation hole, observation well, equipment cabinet, joint opening measurement snap rings, FWD test points and elevation measurement points was drawn so that, the site can be re-established easily upon return.

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The instrumentation hole is located in the outside lane, a distance of 160.14m (section station 5.00+25' 3"), from the section beginning, in the outer wheel path. The equipment cabinet is located 7.8m to the right of the lane edge and the pole is 0.3m behind the equipment cabinet. The observation well/piezometer is located at a distance of 121.95m from the start of the section., 4.5m away from the lane edge. Please refer to the site layout schematic for the testing and monitoring locations within the test section.

The following are enclosed with this report:

- A summary table of SMP measurements over the preceding data collection cycle following the standard format.
- Section layout schematic clearly showing the location of the instrument hole, observation well, equipment cabinet, joint opening FWD and elevation measurement locations.
- Copies of photographs taken during the suspension and dismantle activities.
- TDR traces manually obtained just before the instrument panel board was dismantled.

The summary table indicates that a complete set of measurements was recorded during each monitoring round as planned, with the exception of having no TDR traces in March. Other problems occurred with the mobile box resulting in missing or questionable traces during automated data collection. No other problems were noted and from the manual TDR traces and SMPCheck plots, the installed equipment appears to be functioning properly at the time of de-installation.

No unusual or non standard equipment or wiring was utilized on this site. Although it should be noted, no resistivity probe was installed. Only a limited number of resistivity probes were supplied by FHWA and due to the climate, this site did not receive one.

Information in this report and its attachments are provided to document the SMP suspension and dismantle activities. Any further information about suspension/dismantle activities can be obtained by calling Nichols Consulting Engineers at (702)329-4955.

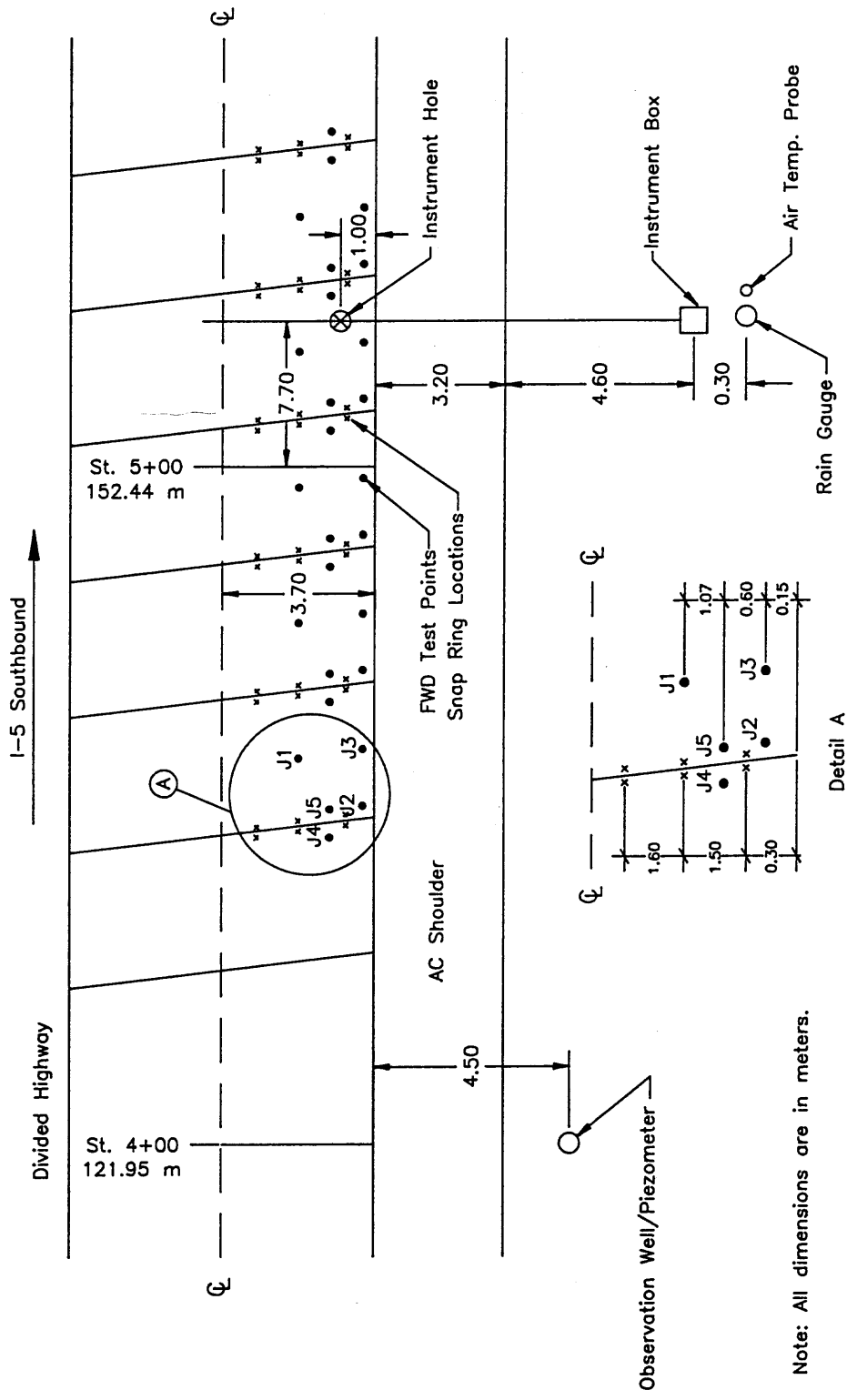
SH:DF/cac  
Attachments

cc: Gonzalo Rada  
Cal Berge

# SUMMARY of SMP DATA COLLECTED to DATE.

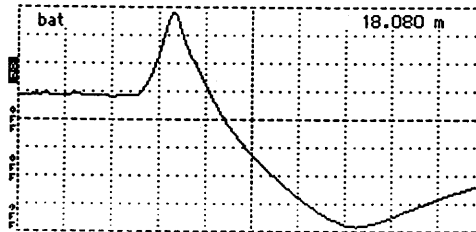
Agency Code: 06, California.														Location: Lodi.													
LTPP Section Code:3042.														Pavement Type:Portland cement concrete.													
Test Date dd/mm/yy	Visit Identity \ Code	ONSITE Data			MOBILE Data.		Manual Data					F W D Data				Distress Data		Profile Data		Comments							
		Pav Temp	Ambient Temp	Precpht.	Subsurface Moisture (TDR)	Frost Depth 2-Point	Backup Pav Temp	Backup Moisture (TDR)	Water Table.	Surface Elev.	Joint Open.	Joint Fault.	Surface Layer Temp.	No. of Cycles/Visit.		Manual	PASCO	Profiler	Dipstick								
													OWP	ML	PE												
12-Jul. 95	NA	X	X	X	X	NA	X	X	X			X	2	2	2					Installation.							
21-Sep. 95	A	X	X	X		NA	X	X		X	X	X	2	2	2												
23-Oct. 95	B	X	X	X	X	NA		X		X	X	X	2	2	2				X								
28-Nov. 95	C	X	X	X	X	NA		X	X		X	X	2	2	2		X			Mobile Box Problems, Partial TDR traces>							
20-Dec. 95	D	X	X	X	X	NA	X	X		X	X	X	2	2	2												
19-Jan. 96	A	X	X	X	X	NA		X		X	X	X	3	3	3												
15-Feb. 96	B	X	X	X	X	NA		X	X	X		X	2	2	2		X										
14-Mar. 96	C	X	X	X		NA		X			X	X	3	3	3			X		Problems with Mobile Box							
11-Apr. 96	D	X	X	X	X	NA	X	X	X	X		X	3	3	3		X			Problems with Mobile Box							
17-May. 96	E	X	X	X	X	NA	X	X		X	X	X	3	3	3												
20-Jun. 96	F	X	X	X	X	NA	X	X	X	X		X	2	2	2		X			No traces for TDR 8 through 10.							
25-Jul. 96	G	X	X	X	X	NA	X	X		X	X	X	2	2	2		X			No traces for TDR 8 through 10.							
26-Aug. 96	H	X	X	X	X	NA	X	X	X	X		X	2	2	2		X	X		No traces for TDR 8 through 10, Dismantle.							

SECTION 063042  
Lodi, CA



Note: All dimensions are in meters.

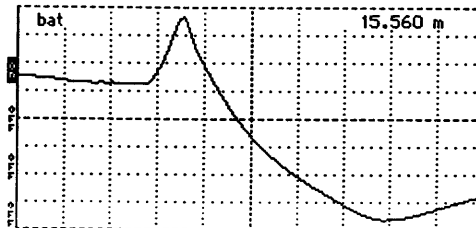
Cursor ..... 18.080 m  
 Distance/Div..... .25 m/div  
 Vertical Scale.... 57.7 m $\mu$ /div  
 VP ..... 0.99  
 Noise Filter..... 1 avs  
 Power ..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #1 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

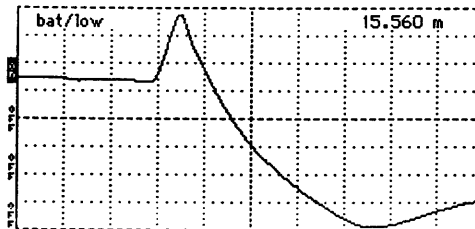
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 Distance/Div..... .25 m/div  
 Vertical Scale.... 64.8 m $\mu$ /div  
 VP ..... 0.99  
 Noise Filter..... 1 avs  
 Power ..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #2 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

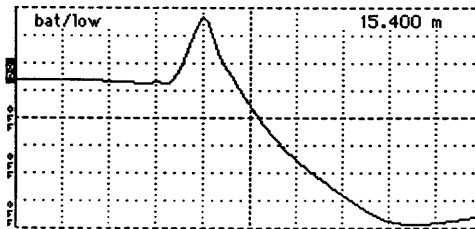
Cursor ..... 15.560 m  
 Distance/Div..... .25 m/div  
 Vertical Scale.... 59.4 m $\mu$ /div  
 VP ..... 0.99  
 Noise Filter..... 1 avs  
 Power ..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #3 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

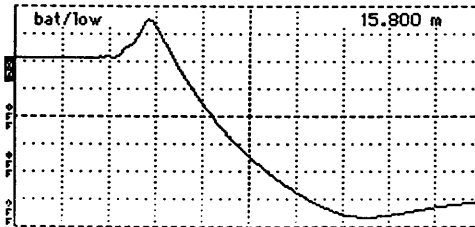
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 Vertical Scale.... 66.7 m $\mu$ /div  
 VP ..... 0.99  
 Noise Filter..... 1 avs  
 Power ..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #4 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

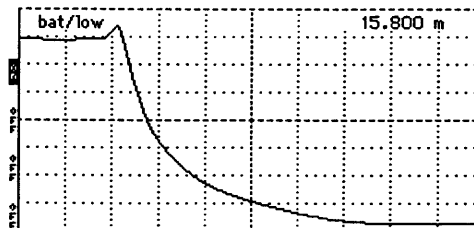
Cursor ..... 15.800 m  
 Distance/Div..... .25 m/div  
 Vertical Scale.... 59.4 m $\mu$ /div  
 VP ..... 0.99  
 Noise Filter..... 1 avs  
 Power ..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #5 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

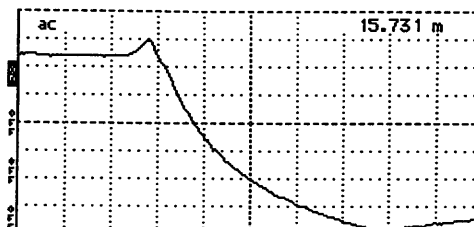
Cursor ..... 15.800 m  
 Distance/Div ..... .25 m/div  
 Vertical Scale.... 79.2 mP/div  
 VP ..... 0.99  
 Noise Filter..... 1 avg  
 Power..... bat/low



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #6 063042  
 Notes Hard looking  
Endo

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

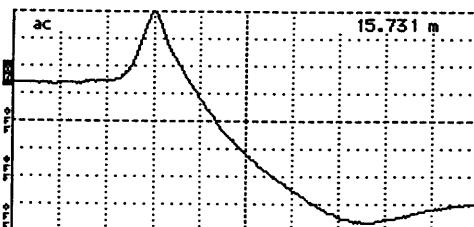
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 Vertical Scale.... 64.8 mP/div  
 VP ..... 0.99  
 Noise Filter..... 1 avg  
 Power..... ac



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #7 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

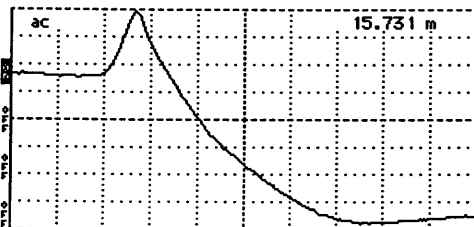
Cursor ..... 15.731 m  
 Distance/Div ..... .25 m/div  
 Vertical Scale.... 64.8 mP/div  
 VP ..... 0.99  
 Noise Filter..... 1 avg  
 Power..... ac



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #8 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

Cursor ..... 15.731 m  
 Distance/Div ..... .25 m/div  
 Vertical Scale.... 70.6 mP/div  
 VP ..... 0.99  
 Noise Filter..... 1 avg  
 Power..... ac



Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #9 063042  
 Notes Looks Good

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_

Cursor ..... 16.961 m  
 Distance/Div ..... .25 m/div  
 Vertical Scale.... 64.8 mP/div  
 VP ..... 0.99  
 Noise Filter..... 1 avg  
 Power..... ac



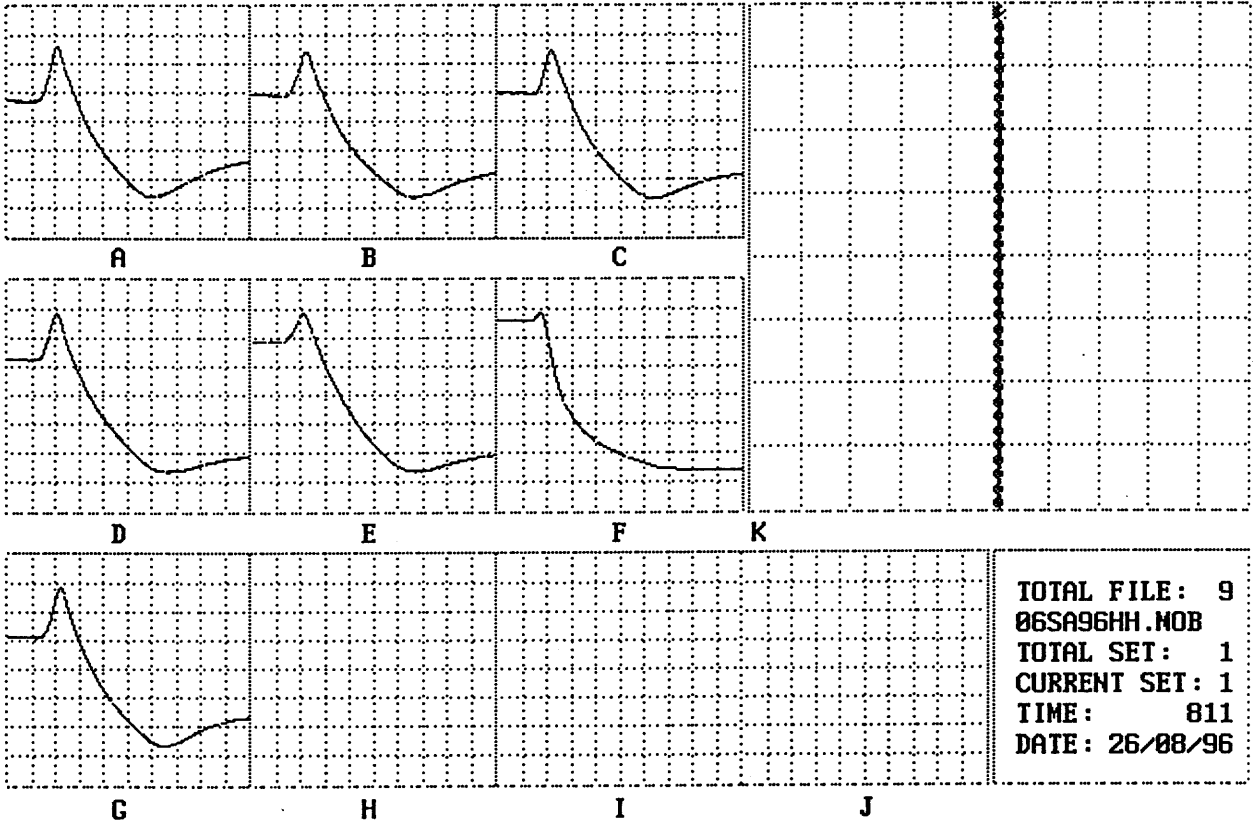
Tektronix 1502B TDR  
 Date 8/26/96  
 Cable #10 063042  
 Notes Maybe Nipper  
Looking Endo

Input Trace \_\_\_\_\_  
 Stored Trace \_\_\_\_\_  
 Difference Trace \_\_\_\_\_



-100

100





Taped Cable-ends.



Equipment Cabinet.



Instrumentation Hole.



Observation Piezometer.